IN THE CLAIMS:

The following listing of claims replaces all prior versions:

1. (currently amended): A portable computer system comprising:

a bus;

a processor coupled to said bus;

a housing comprising a dielectric elastomer electronic muscle material,

said dielectric elastomer electronic muscle material, when moved, causing said

processor to behave in a prescribed manner and wherein said electronic muscle

material conforms to the shape of user's hand for improved ergonomics and

wherein said conformance to shape of user's hand generates contour data which

is used by said processor to identify a user for purpose of user authorization said

electronic muscle material vibrates at a frequency as specified by said processor

for use as a speaker;

a display device coupled to said bus and for providing a visual display; and

wherein said processor implements a user interface for controlling said

display.

2. (original): The portable computer system of Claim 1 further

comprising a battery and wherein movement of said electronic muscle material

causes charging of said battery.

PALM-3675.SG/ACM/RMP Examiner: W.J. XIAO MIN Serial No.: 09/944,280 Group Art Unit: 2674

2.

The portable computer system of Claim 1 wherein 3. (original):

movement of said electronic muscle material causes said processor to sense

handling by user for determination of left-handedness or right-handedness

thereof.

4. (original): The portable computer system of Claim 3 wherein in

response to said determination of handedness said electronic muscle material

generates a plurality of function buttons in the proximity of user's fingers.

5. (original): The portable computer system of Claim 4 wherein any

of said plurality of function buttons vibrate to apprise user of relevant message

being displayed.

The portable computer system of Claim 4 wherein any 6. (original):

of said plurality of function buttons protrudes from said housing to apprise user

of relevant message being displayed.

7. (original): The portable computer system of Claim 1 wherein said

electronic muscle material vibrates for apprising the user of a message being

displayed.

8-10. (Cancelled)

Serial No.: 09/944,280 PALM-3675.SG/ACM/RMP Group Art Unit: 2674 Examiner: WIJ. XIAO MIN 3

11. (original): The portable computer system of Claim 1 wherein said electronic muscle material vibrates at a frequency of external sound for use as a microphone.

12. (original): The portable computer system of Claim 11 wherein the location of said vibration moves spatially about the housing for tracking a strongest sound signal.

13. (Currently Amended): A portable electronic device comprising: a processor coupled to a bus;

a display module for displaying information and coupled to said bus;

a memory for storing information and coupled to said bus;

a dielectric elastomer electronic muscle material coupled to said bus and for use as an input device and wherein a portion of said electronic muscle material functions as a speaker, wherein said electronic muscle material generates information used by said processor for detecting the placement of user fingers on said electronic muscle material and further wherein said electronic muscle material grows a plurality of function buttons in the proximity of user's fingers responsive to the detection of the placement.

14-17. (Cancelled)

PALM-3675.SG/ACM/RMP
Examiner: WIL XIAO MIN 4

Serial No.: 09/944,280 Group Art Unit: 2674

A portable electronic device as described in 18. (previously presented): Claim 13 wherein the location of said portion is adjusted by said processor to optimize sound characteristics.

A portable electronic device as described in Claim 13 19. (original): wherein a portion of said electronic muscle material functions as a microphone.

20. (original): A portable electronic device as described in Claim 19 wherein the location of said portion is adjusted by said processor to optimize detection characteristics.

A portable electronic device as described in 21. (Currently Amended): Claim [[14]] 13 wherein said electronic muscle material generates information used by said processor for detecting the handedness of a user.

A portable electronic device as described in 22. (Currently Amended): Claim [[14]] 13 wherein said electronic muscle material generates information used by said processor for detecting the identity of a user.

Serial No.: 09/944,280 PALM-3675.SG/ACM/RMP Group Art Unit: 2674 Examiner: WIJ. XIAO MIN 5

- 23. (original): A portable electronic device as described in Claim 13 further comprising a battery and wherein, in response to movement of said electronic muscle material, said electronic muscle material charges said battery.
- 24. (currently amended): In a portable electronic device, a method of responding to a user comprising the steps of:
- a) in response to said user handling said portable electronic device, a dielectric elastomer electronic muscle material therein generating information, one said information comprising a user hand contour; and
- b) a processor of said electronic device processing said information and performing a prescribed function, one said prescribed function comprising forming said electronic muscle material into a shape that aligns with said user hand contour for providing user comfort performing a user authentication function.

25. (canceled)

26. (original): A method as described in Claim 24 wherein said information comprises a user finger placement and wherein step b) comprises said processor forming buttons within said electronic muscle material that align with positions of said finger placement.

PALM-3675.SG/ACM/RMP
Examiner: WIL XIAO MIN

6 Serial No.: 09/944,280
Group Art Unit: 2674

27. (original): A method as described in Claim 24 wherein said information comprises a user hand contour and wherein step b) comprises said processor determining the handed-ness of said user.

28. (Cancelled)

29. (Currently Amended): A portable computer system comprising:

a bus;

a processor coupled to said bus;

a housing comprising a dielectric elastomer electronic muscle material, said dielectric elastomer electronic muscle material, when moved, causing said processor to behave in a prescribed manner and wherein said electronic muscle material conforms to the shape of user's hand for improved ergonomics and wherein said conformance to shape of user's hand generates contour data which is used by said processor to identify a user for purpose of user authorization;

a display device coupled to said bus and for providing a visual display;

a battery, wherein stretching and contraction of said electronic muscle
material causes charging of said battery based on a change of an electrical
property of said electronic muscle; and

wherein said processor implements a user interface for controlling said display.

PALM-3675.SG/ACM/RMP Serial No.: 09/944,280
Examiner: WIL XIAO MIN 7 Group Art Unit: 2674

30. (Cancelled)

31. (Previously Presented): The portable computer system of Claim 29

wherein movement of said electronic muscle material causes said processor to

sense handling by user for determination of left-handedness or right-

handedness thereof.

32. (Previously Presented): The portable computer system of Claim 31

wherein in response to said determination of handedness said electronic muscle

material generates a plurality of function buttons in the proximity of user's

fingers.

33. (Previously Presented): The portable computer system of Claim 32

wherein any of said plurality of function buttons vibrate to apprise user of

relevant message being displayed.

34. (Previously Presented): The portable computer system of Claim 32

wherein any of said plurality of function buttons protrudes from said housing to

apprise user of relevant message being displayed.

PALM-3675.SG/ACM/RMP Serial No.: 09/944,280
Examiner: WIL XIAO MIN 8 Group Art Unit: 2674

- 35. (Previously Presented): The portable computer system of Claim 29 wherein said electronic muscle material vibrates for apprising the user of a message being displayed.
- 36. (New) The portable computer system of Claim 1, wherein said electronic muscle material vibrates at a frequency as specified by said processor for use as a speaker.
- 37. (New) A portable electronic device as described in Claim 13 wherein a portion of said electronic muscle material functions as a speaker.
- 38. (New) A method as described in Claim 24 wherein said b) comprises said processor performing a user authentication function.

PALM-3675.SG/ACM/RMP
Examiner: WIL XIAO MIN
9
Serial No.: 09/944,280
Group Art Unit: 2674